Mobile Poultry Processing on Nantucket

Katie Bowles, Trevor Drane, Adam LaBombard, & Charles Ritchie





Summary of Presentation

- **□** Project Overview
- Objectives
- **■** MPPU Introduction
- **□** Interviews
- **□** Recommendations

Sustainable Nantucket

NonProfit focused on promoting sustainable and locally sourced foods





- Farm to School
- Mentor Farmer Program
- NantucketGrownTM
- Farmers & Artisans Market

Project Overview

The goal of our project was to create a plan and set of materials that Sustainable Nantucket can use for the development and approval of a Mobile Poultry Processing Unit on Nantucket.



Objectives

Evaluate Lessons Learned

Evaluate and Determine MPPU Technology and Operational Guidelines

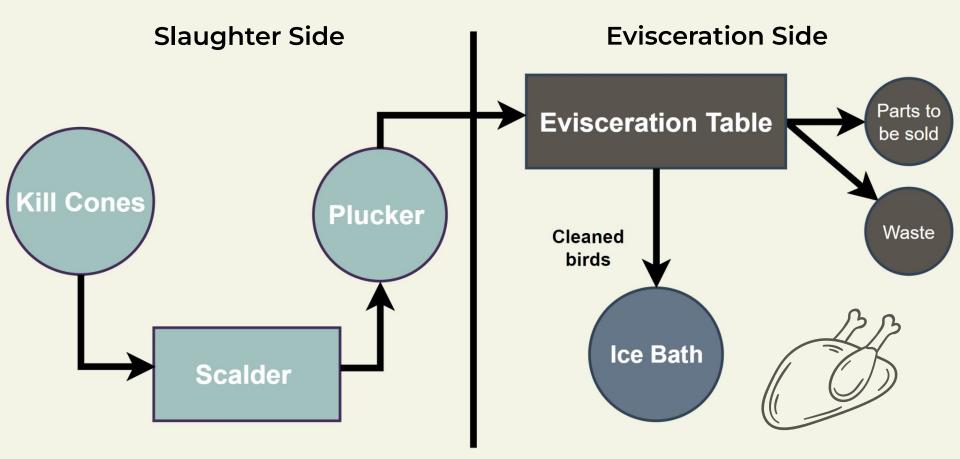
Identify Applicable Regulations

Identify the Perspectives of Stakeholders

Develop Deliverables



What is an MPPU?



Mobile Poultry Processing on Nantucket



Why an MPPU?

On island processing and sale

Mobile

Cost effective



Types of MPPUs



Enclosed Unit

- Four walls and ceiling
- Climate controlled
- Collects wastewater
- \$90,000

Types of MPPUs



Open Air Mounted Unit

- Open bed trailer
- Cramped work space
- Exposed to elements
- \$25,000-\$35,000

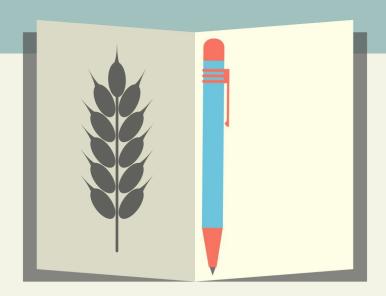
Types of MPPUs



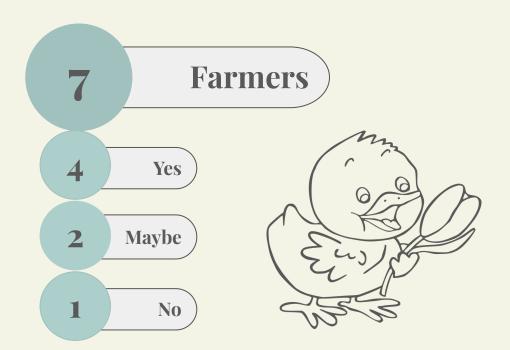
Enclosed Storage, Open Air Unit

- Processing in open air
- Equipment storage out of the elements
- Flexible design
- \$25,000

Interviews



Farmer Perspectives



Current Poultry:

200 layers 50 broilers 50 ducks

Potential Poultry:

600 layers 1000+ broilers Some turkeys

Local Official Interviews

Nantucket Waste Options Nantucket Sewer Department



Nantucket Board of Health

MPPU Discussions

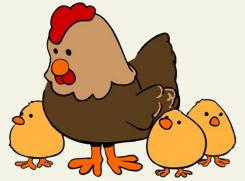
Martha's Vineyard Agricultural Society Island Grown
Initiative of Martha's
Vineyard

New Entry Sustainable Farming Project

What Should Sustainable Nantucket Look for in an MPPU?

Flexibility

Easy processing



Ease of setup and cleanup

Safe to use

Recommendations



MPPU Type Recommendation



- Equipment is protected from elements
- Purchase equipment separately
- Flexibility in design
- Easier to tow

Slaughter Location

What Works

What Doesn't Work

Level ground w/ lots of space

Being close to wetlands

Water and electric connection

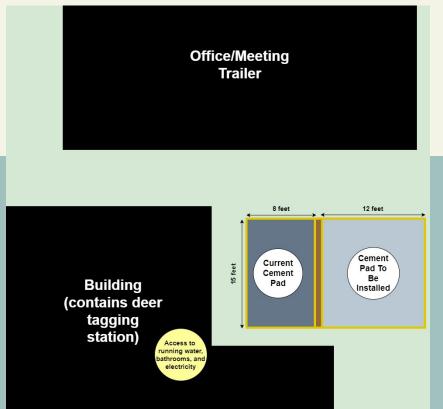
Being close to biologically active fields

Restroom facilities for processors

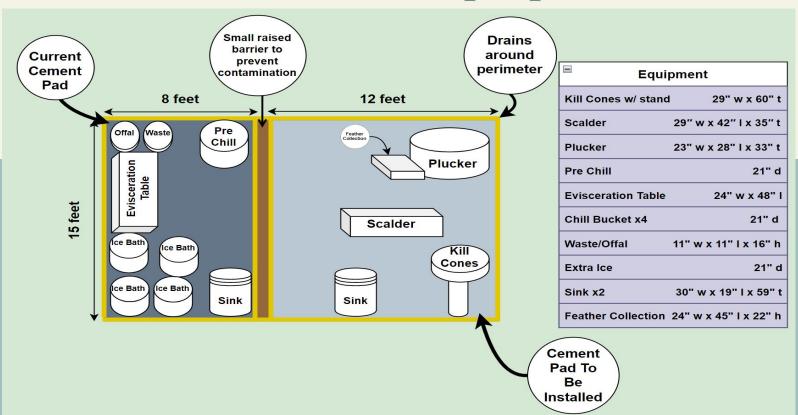
Federal, state and local land restrictions



Location Example



Location Example pt. 2



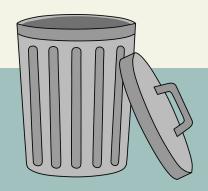
Waste Disposal

Solid Waste

- Woodchips
- Feathers
- Waste from evisceration

Liquid

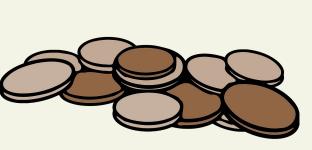
- Water from cleaning
- Water from ice
- Water from scalder and plucker



Operating Expenses

Major Costs

- \$ Labor \$5/bird
- **\$** Ice \$3/bird
- \$ Propane \$0.50/bird



Minor Costs

- \$ Cleaning supplies
- \$ Bags
- \$ Water
- \$ Electricity
- \$ Gas
- \$ Wear and tear

Operating Procedures and Manual

- Model HACCP Plan
- Recall Plan
- Operations Manual



Thank You!

Any Questions?

References

- Sustainable Nantucket. (n.d.). *Sustainable Nantucket*. Retrieved December 11, 2022, from https://sustainable-nantucket.org *Mobile Poultry Processing Unit Projects*. (n.d.). New England Small Farm Institute. Retrieved December 10, 2022, from
 - https://www.smallfarm.org/main/special_projects/mppu/
- Tufts University. (n.d.). New Entry Sustainable Farming Project. Eastern Massachusetts Mobile Poultry Processing Unit

 (MPPU) | New Entry Sustainable Farming Project. Retrieved December 10, 2022, from

 https://nesfp.nutrition.tufts.edu/farmer-training/livestock-poultry/poultry-resources/eastern-massachusetts-mobile-poultry-processing
- Poore, S. (2016, July 22). The cluck stops here: Mobile poultry processing unit geared toward family farms. Roanoke Times. https://roanoke.com/archive/the-cluck-stops-here-mobile-poultry-processing-unit-geared-toward-family-farms/article_e81dbdae-4f01-11e6-8570-3389ae916745.html